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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,844	10/12/2001	Soon Chul Cha	P-0265	7347

34610 7590 11/05/2004

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EXAMINER

TILLERY, RASHAWN N

ART UNIT	PAPER NUMBER
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2612

DATE MAILED: 11/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

### Application No.

09/974,844

### Applicant(s)

CHA, SOON CHUL

### Examiner

Rashawn N Tillery

### Art Unit

2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 12 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22-25 is/are allowed.
- 6) ☒ Claim(s) 1-3, 17, 19, 26, 27 and 29 is/are rejected.
- 7) ☒ Claim(s) 4-16, 18, 20, 21 and 28 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 8/30/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date: \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-3 17, 26, 27 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Umezawa et al (US5491507).

Regarding claim 1, Umezawa discloses, in figures 13, 16A and 16B, an apparatus for adjusting an angle of an image device for an information processing equipment comprising:

a main body (50) including a plurality of key buttons (14) and a built-in unit;

a display body (49) having a display unit (11), rotatably coupled to one side of the main body;

an image device unit (61) coupled to the display body that is capable of mounting an image device;

and rotation means (51a, 51b) for rotating the image device unit in accordance with a rotation angle between the display body and the main body (see col. 15, line 6 to col. 16, line 46).

Regarding claim 2, Umezawa discloses, in figure 13, the rotation means (51) comprises a connecting link that rigidly couples the main body to the image device unit

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in a rotational relationship to compensate a viewing angle of the image device when the rotation angle is changed (see figures 16A and 16B).

Regarding claim 3, Umezawa discloses, in figure 13, the rotation means comprises a connecting link that couples one side of the main body to one side of the image device unit.

Regarding claim 26, Umezawa discloses, in figures 13, 16A and 16B, an apparatus that adjusts an angle of an image device for an information processing equipment comprising:

a display body (49) including a display unit (11) rotatably coupled to one side of a main body (50) of the information processing equipment; and

an image device unit (61) rotating in a prescribed relationship together with the display body (see col. 15, lines 43-60).

Regarding claim 27, Umezawa discloses, in figure 13, a rotation means (51) for connecting one side of the image device unit and one side of the main body.

Regarding claim 29, Umezawa discloses, in figure 13, the image device installed on the image device unit is a camera.

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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2. Claims 1, 17, 26 and 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukumitsu et al (US6141052).

Regarding claim 1, Fukumitsu discloses, in figure 1, an apparatus for adjusting an angle of an image device for an information processing equipment comprising:

a main body (11) including a plurality of key buttons (12) and a built-in unit;

a display body (14) having a display unit (15), rotatably coupled to one side of the main body;

an image device unit (16, 17) coupled to the display body that is capable of mounting an image device (18);

and rotation means (25) for rotating the image device unit in accordance with a rotation angle between the display body and the main body (see col. 3, lines 5-65).

Regarding claim 17, Fukumitsu discloses, in figure 1, the image device is located at an upper central part of the display body (the examiner notes that Applicant's claim language is written such that only part of the claim limitation is required to be met).

Regarding claim 26, Fukumitsu discloses, in figure 1, an apparatus that adjusts an angle of an image device for an information processing equipment comprising:

a display body (14) including a display unit (15) rotatably coupled to one side of a main body (11) of the information processing equipment; and

an image device unit (16, 17) rotating in a prescribed relationship together with the display body (the examiner notes that Fukumitsu's camera is physically attached to the display body and is able to be manually rotated in accordance with movement of the display body).

Regarding claim 29, Fukumitsu discloses, in figure 1, the image device installed on the image device unit is a camera.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fukumitsu et al.

Regarding claim 19, Fukumitsu discloses a portable computer with a camera attached to the center of a display unit. Fukumitsu does not expressly disclose that the image device unit is located on one of a left edge and a right edge. Official Notice is taken that it is well known in the art to attach small cameras to LCD panels and reposition them accordingly. It would have been obvious to one of ordinary skill in the art at the time the invention was made to position the imaging device on a left edge or right edge as a matter of design choice dependent on user specification.

***Allowable Subject Matter***

1. Claims 22-24 are allowed.

Regarding claim 22, the prior art does not teach or fairly suggest an apparatus for automatically adjusting an angle of an image device for an information processing

equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

the rotation means having one side connected to the main body and the other side connected to the image device unit for rotationally connecting the main body to the image device unit.

2. Claims 4-16, 18, 20, 21 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 4, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit, a rotation means and a connecting link, wherein

one end of the connecting link is connected to one side of the main body having a first prescribed offset distance from a center of rotation of the display body, and the other end of the connecting link is connected to the image device unit having a second prescribed offset distance from a center of rotation of the image device.

Regarding claim 5, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein



a body protruding portion protrudes upwardly from the main body, and a body connecting portion is installed on a side surface of the body protruding portion so that the connecting link can be coupled thereto.

Regarding claim 7, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit, a rotation means, a rotation shaft, a supporting plate and a plurality of link connecting portions.

Regarding claim 11, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit, a rotation means, a rotation shaft, a supporting plate and a plurality of link connecting portions, wherein each of the link connecting portions are connected to the rotation means.

Regarding claim 16, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

a sliding door is included in the display body so as to open/close the image device unit in the display body.

Regarding claim 18, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

the main body comprises a body protruding portion upwardly protruded from a top surface into the display body and a body connecting portion is formed on a side surface of the body protrusion portion parallel to the center of rotation of the display so that the rotation means can be connected thereto.

Regarding claim 20, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

a hinge engaging portion is upwardly protruded on the main body so that the display body can be rotationally coupled to the main body and a body connecting portion is protruded on a side surface of the hinge engaging portion offset and parallel to the center of the rotation of the display body, wherein the rotation means is connected to the body connecting portion.

Regarding claim 21, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

the image device unit is positioned in one of the side portions of the display body, and wherein a hinge engaging portion is upwardly protruded on the main body so that the display body can be rotationally coupled to the main body and a body connecting portion is protruded on a side surface of the hinge engaging portion offset and parallel

to the center of the rotation of the display body, wherein the rotation means is connected to the body connecting portion.

Regarding claim 28, the prior art does not teach or fairly suggest an apparatus for adjusting an angle of an image device for an information processing equipment comprising a main body, a display body, an image device unit and a rotation means, wherein

one end of the rotation means is connected to one side of the main body a prescribed distance from a center of rotation of the display body, and the other end of the rotation means is connected to the image device unit a prescribed distance from a center of rotation of the image device unit.

### ***Conclusion***


1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Verstockt et al teach a clamping apparatus for fixing a camera on an LCD panel. Smith II teaches a camera attached to an LCD panel. Lemelson et al teach a video telephone. Lin teaches a camera for use in the battery receiving chamber of a portable computer. McNelley et al teach a teleconferencing camcorder. Guichard et al teach a video phone.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rashawn N Tillery whose telephone number is 703-305-0627. The examiner can normally be reached on 9AM-6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on 703-305-4929. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RNT

  
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